

WHAT IS CLAIMED IS:

1. A circular saw comprising:

5 a base with a table on a top of the base, a blade rotatably extending through a slot defined in the table, a first rail and a second rail located on two sides of the table, and

a rip guide having a lock handle pivotably connected to a first end thereof and a guide piece located at an underside of the lock handle, the guide piece having rollers connected thereto which contact an upper surface of the first rail, a second end of the rip guide slidably engaged with the second rail.

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2. The circular saw as claimed in claim 1, wherein the guide piece includes two through holes and each of the through holes has one roller engaged therewith.

3. The circular saw as claimed in claim 2, wherein a rectangular retaining frame is connected to the guide piece and located in each of the through hole, the roller in is rotatably enclosed by the retaining frame.

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4. The circular saw as claimed in claim 2, wherein the roller in each of the through holes partially extends beyond a top surface of the guide piece.

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5. The circular saw as claimed in claim 1, wherein the first rail includes a groove defined longitudinally in the upper surface thereof and

the rip guide includes a protrusion which is slidably engaged with the groove.

6. The circular saw as claimed in claim 5, wherein the upper surface of the first rail includes a convex curve portion and an
5 intermediate member is connected between the rip guide and the first rail, the intermediate member having the protrusion and a concave surface which is matched with the convex curve portion.

7. The circular saw as claimed in claim 1, wherein an end member is connected to a second end of the rip guide and includes an
10 insertion which is inserted in an opening of the second end of the rip guide, an assist roller is connected to an underside of the insertion and extending beyond an opening defined in an underside of the second end of the rip guide, the assist roller contacting a top surface of the second rail, a hooking member is connected to the end member and slidably
15 engaged with an underside of a dovetail-shaped ridge projecting from the second rail.